

In re U.S. Patent Application of Jens PETERSEN  
Serial No.: 09/938,669 Filing Date: August 27, 2001  
Title: POLYACRYLAMIDE HYDROGEL AS A SOFT TISSUE FILLER  
ENDOPROSTHESIS

**AMENDMENT**

The listing of claims will replace all prior versions, and listings of claims in the Application. Please amend the claims as follows:

**Listing of Claims:**

1.-26. (cancelled)

27. (currently amended) A prosthetic device for soft tissue augmentation consisting essentially of a polymer hydrogel, said polymer hydrogel comprising less than 50 ppm monomeric units, water or an aqueous solution and at least 0.5% by weight polyacrylamide and less than 3.5% by weight polyacrylamide, based on the total weight of the polymer hydrogel, wherein said polyacrylamide is made by a method comprising combining acrylamide and methylene bis-acrylamide and wherein the device is injectable into soft tissue.

28. (currently amended) The prosthetic device according to claim 27, wherein the polymer hydrogel comprises at least 0.5% by weight polyacrylamide, based on the total weight of the polymer hydrogel.

29. (currently amended) The prosthetic device according to claim 27 comprising about 1.9 to 2.9% by weight polyacrylamide, based on the total weight of the polymer hydrogel.

30. (currently amended) The prosthetic device according claim 27, wherein the polymer hydrogel comprises at least 95% by weight water or an aqueous solution based on the total

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weight of the hydrogel.

31. (previously presented) The prosthetic device according to claim 27, further comprising cells for cellular engraftment to the surrounding tissue.

32. (previously presented) The prosthetic device according to claim 31, wherein the cells are stem cells.

33. (currently amended) The prosthetic device according to claim 27, wherein the polymer hydrogel comprises at least 1.5% by weight polyacrylamide, based on the total weight of the polymer hydrogel.

34. (previously presented) The prosthetic device according to claim 27 having a complex viscosity of about 2 to 100 Pas.

35. (previously presented) The prosthetic device according to claim 27 for at least one of cosmetic or reconstructive surgery of the face, body contouring, or augmentation or reconstructive surgery of the lips.

36. (previously presented) The prosthetic device according to claim 35 for cosmetic or reconstructive surgery of the face having a complex viscosity of about 2 to 20 Pas.

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37. (previously presented) The prosthetic device according to claim 35 for body contouring having a complex viscosity of about 5 to 50 Pas.

38. (previously presented) The prosthetic device according to claim 35 for augmentation or reconstructive surgery of the lips having a complex viscosity of about 2 to 10 Pas.

39. (previously presented) The prosthetic device according to claim 27 for use in correction of facial contour deformities due to at least one of aging, acne, trauma, surgery, infection or congenital deformities.

40. (previously presented) The prosthetic device according to claim 39 wherein the correction of facial contour deformities is selected from the group consisting of a correction of the cheekbones, a correction of nasolabial folds, a correction of glabellar frowns, a correction of depressed contours of the mouth, a correction to the chin, a correction to size or shape of the lips, and a correction to other soft tissue deficiencies of the face.

41. (previously presented) The prosthetic device of claim 27 wherein the water is pyrogen-free.

42. (previously presented) The prosthetic device of claim 30 wherein the water is pyrogen-free.

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43. (cancelled)

44. (currently amended) The prosthetic device of claim 27 wherein the polymer hydrogel comprises less than 40 ppm monomeric units.

45. (currently amended) The prosthetic device of claim 27 wherein the polymer hydrogel has an elasticity module of not less than 10 Pa.

46. (currently amended) The prosthetic device of claim 27 wherein the polymer hydrogel has an elasticity module of about 10 to 700 Pa.

47. (currently amended) The prosthetic device of claim 27 wherein the polymer hydrogel has an elasticity module of about 35 to 480 Pa.

48. (new) The prosthetic device of claim 27 wherein the polymer hydrogel comprises less than 20 ppm monomeric units.